Optical-Technology Waveband Expanded Non-Dispersion Shifted Single-Mode Optical Fiber(G.652.D)

Structure:

Feature:

1260~1625 full band transmission， superior optical property satisfies the transmission requirements

Application:

Suitable for all optical cable constructions， including ribbon， loose tube stranded， slotted core， central tube tight buffered designs

Packing & Storage:

Ensure no foreign matte on the reel and fiber surface， wrap it with film and cover， and label fiber coding on the reel and cover respectively.

The packaged optical fiber is stored at a constant temperature of 25℃ in a light-proof warehouse . The products are fixed in the carton when they are shipped out of the warehouse. The carton number and fiber coding information are attached to the carton, and the electronic test report is attached to each shipment.

Standards:

G.652.D comply with or exceed ITU-T G.652.D & IEC B1.3 specifications

Dimensional Specifications					
Type		**Specification**	**Type**		**Specification**
Cladding Diameter		125.0±0.7 um	Coating Non-circularity		≤6 %
Cladding Non-circularity		≤0.7%	Core-Clad Concentricity		≤0.5 um
Coating Diameter		243±7 um	Fiber Curl(radius)		≥4 m
Coating-Cladding Concentricity		≤10 um	Delivery Length		2.1-50.4(km/reel)
Optical Specifications					
Type		**Specification**	**Type**		**Specification**
Mode-Field Diameter (MFD)	@1310nm	9.2±0.4 um	Point Discontinuity	@1310nm	≤0.04 dB
	@1550nm	10.4±0.6 um		@1550nm	≤0.04 dB
Attenuation	@1310nm	≤0.34 dB / km	Polarization Mode Dispersion（PMD）	Maximum Individual Fiber PMD	≤0.2 ps/(km$^{1/2}$)
	@1383nm	≤0.34 dB / km		PMD Link Design Value （M=20, Q=0.01%）	≤0.1 ps/(km$^{1/2}$)
	@1550nm	≤0.20 dB / km		Typical Value	0.04 ps/(km$^{1/2}$)
	@1625nm	≤0.24 dB / km	Zero Dispersion Slope(S_0)		≤0.092 ps/(nm^2.km)
Attenuation VS. Wavelength	@1285-1330nm, Ref. λ@1310nm	≤0.04 dB / km	Dispersion in the range of wavelength	1285～1339nm	≥-3.4, ≤3.4ps/(nm.km)
	@1525-1575nm, Ref. λ@1550nm	≤0.03 dB / km		1271～1360nm	≥-3.4, ≤5.3 ps/(nm.km)
Zero Dispersion Wavelength(λ_0)		1312±12 nm	Cable Cutoff Wavelength λcc		≤1260nm
Mechanical Specifications					
Type		**Specification**	**Type**		**Specification**
Proof Test		≥9.0N, ≥1.0%, ≥100Kpsi	Macrobend Loss	1turn, Φ32mm@1550nm	≤0.05 dB
Dynamic stress corrosion susceptibility parameters (Nd)		≥20		100 turns, Φ50mm@1310nm&1550nm	≤0.05 dB
Coating Strip Force	Average	1.5N		100 turns, Φ60mm@1625nm	≤0.1 dB
	Peak	1.3-8.9N			
Environmental Specifications					
Type		**Specification**	**Type**		**Specification**
Temperature Dependence（-60℃ to ±85℃,@1550nm）		≤0.05 dB / km	Dry Heat Soak（85±2℃, 30 days@1550nm）		≤0.05 dB / km
Temperature Humidity Cycling（-10℃to±85℃, at 98%RH , @1550nm）		≤0.05 dB / km	Damp Heat（85±2℃, at 85%RH, 30 days @1550nm）		≤0.05 dB / km
Water Immersion（23±2℃, 30 days@1550nm）		≤0.05 dB / km			

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